AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

CLAIMS

1. (Original) A foam comprising a liquid phase and a gas phase wherein

the liquid phase comprises at least one sclerosing agent and is at least 20% vol/vol of at least one viscosity enhancing agent; and

the gas phase comprises at least 50% CO2;

and wherein the foam has a density less than 0.25 g/ml and half life of greater than 100 secs.

- 2. Cancelled.
- 3. Cancelled.
- 4. A foam of claim 1, wherein the gas phase comprises at least 99% CO2.
- 5. A foam of claim 1, wherein the gas phase consists essentially of CO2.
- 6. Cancelled.
- 7. Cancelled.
- 8. A foam of claim 1, wherein the half life is at least 180 seconds.
- A foam of claim 1, wherein the density ranges from 0.07 to 0.22 g/ml.
- 10. Cancelled.
- 11. Cancelled.
- 12. A foam of claim 1, wherein the density ranges from 0.08 to 0.14 g/ml.
- 13. A foam of claim 1, wherein the gas phase further comprises another physiologically acceptable gas that is dispersible in blood.
 - 14. A foam of claim 1, wherein the gas phase further comprises O2.
- 15. A foam of claim 1, wherein the gas phase consists essentially of CO2 and O2.

- 16. A foam of claim 1, wherein the at least one viscosity enhancing agent is chosen from glycerol and PVP.
 - 17. Cancelled.
- 18. A foam of claim 1, wherein the at least one sclerosing agent is chosen from polidocanol, glycerol and sodium tetradecyl sulphate.
- 19. A foam of claim 1, wherein the at least one sclerosing agent is polidocanol.
- 20. A foam of claim 1, wherein the polidocanol is present in a concentration ranging from 0.5 to 4% vol/vol in the liquid phase.
- 21. A foam of claim 1, wherein the liquid phase further comprises water and/or saline solution.
 - 22. A foam of claim 1, wherein the liquid phase further comprises alcohol.
- 23. A foam of claim 1, wherein the saline solution is phosphate buffered saline with a pH ranging from 6.0 to 8.0.
- 24. A foam of claim 1, wherein the foam is capable of being passed down a 21 gauge needle such that 50% or more by number of its gas bubbles of at least 25μm remain at 150μm diameter or less and at least 95% of these bubbles at 280μm diameter or less.
- 25. A foam of claim 1, wherein at least 50% by number of the gas bubbles of at least 25 μ m diameter are of no more than 120 μ m diameter and at least 95% of these gas bubbles are of no more than 250 μ m.

| | 26. | A method for angiologic treatment comprising injecting a foam of claim | | | | | | | |
|--|-----|--|--|--|--|--|--|--|--|
| 1 into vessels to be treated. | | | | | | | | | |
| | | | | | | | | | |
| | 27. | A method for phlebologic treatment comprising injecting a foam of | | | | | | | |
| claim 1 into vessels to be treated. | | | | | | | | | |
| | | | | | | | | | |
| | 28. | The method of claim 25 wherein substantially the entire greater | | | | | | | |
| saphenous vein of one leg of a human patient is treated by a single injection of foam. | | | | | | | | | |
| | 29. | The method of claim 27 wherein the single injection uses an amount | | | | | | | |
| | 29. | The method of claim 27 wherein the single injection uses an amount | | | | | | | |
| ranging from 10ml to 50ml of foam. | | | | | | | | | |
| | 30. | Cancelled. | | | | | | | |
| | | | | | | | | | |
| | 31. | The method of claim 27 wherein the single injection uses an amount | | | | | | | |
| ranging from 15ml and 30ml. | | | | | | | | | |
| | | | | | | | | | |
| | 32. | Cancelled. | | | | | | | |
| | 33. | Cancelled. | | | | | | | |
| | | | | | | | | | |
| | 34. | Cancelled. | | | | | | | |
| | 35. | Cancelled. | | | | | | | |
| | 00. | | | | | | | | |
| | 36. | Cancelled. | | | | | | | |
| | 27 | Canadiad | | | | | | | |
| | 37. | Cancelled. | | | | | | | |

38.

39.

40.

Cancelled.

Cancelled.

Cancelled.

| 41. | Cancelled. | | | |
|-----|------------|--|--|---|
| 42. | Cancelled. | | | |
| 43. | Cancelled. | | | |
| 44. | Cancelled. | | | , |
| 45. | Cancelled. | | | |
| 46. | Cancelled. | | | |
| 47. | Cancelled. | | | |
| 48. | Cancelled. | | | |
| 49. | Cancelled. | | | |
| 50. | Cancelled. | | | |
| 51. | Cancelled. | | | |
| 52. | Cancelled. | | | |
| 53. | Cancelled. | | | |
| 54. | Cancelled. | | | |
| 55. | Cancelled. | | | |
| 56. | Cancelled. | | | |
| 57. | Cancelled. | | | |
| 58. | Cancelled. | | | |

- 59. Cancelled.
- 60. Cancelled.
- 61. Cancelled.
- 62. Cancelled.
- 63. Cancelled.
- 64. A method for producing a foam comprising

passing a mixture comprising at least one physiologically acceptable blood dispersible gas and at least one aqueous sclerosant liquid through one or more passages having at least one cross-sectional dimension of from 0.1 to 15 μ m,

the ratio of gas to liquid being controlled such that the foam is produced having a density less than 0.25 g/cm and a half-life of greater than 100 secs.

- 65. The method of claim 64, wherein the physiologically acceptable blood dispersible gas is chosen from CO2, O2 and mixtures thereof.
- 66. The method of claim 64, wherein the physiologically acceptable blood dispersible gas is at least 50% CO2.
 - 67. Cancelled.
 - 68. Cancelled.
- 69. The method of claim 64, wherein the physiologically acceptable blood dispersible gas comprises at least 99% CO2.
- 70. The method of claim 64, wherein the physiologically acceptable blood dispersible gas consists essentially of CO2.

- 71. The method of claim 64, wherein the half life is at least 120 seconds
- 72. Cancelled.
- 73. The method of claim 64, wherein the half life is at least 180 seconds.
- 74. The method of claim 64, wherein the density ranges from 0.07 to 0.19 g/ml.
- 75. The method of claim 64, wherein the mixture further comprises at least 20% vol/vol of at least one viscosity enhancing agent.
- 76. The method of claim 75, wherein the at least one viscosity enhancing agent is chosen from glycerol and PVP.
 - 77. Cancelled.
- 78. The method of claim 64, wherein the at least one sclerosing agent is chosen from polidocanol, glycerol and sodium tetradecyl sulphate.
- 79. The method of claim 78, wherein the at least one sclerosing agent is polidocanol.
- 80. The method of claim 64, wherein the foam has a viscosity ranging from ranging from 2.0 to 3.5 cP.
- 81. The method of claim 64, wherein the foam is capable of being passed down a 21 gauge needle such that 50% or more by number of its gas bubbles of at least $25\mu m$ remain at $150\mu m$ diameter or less and at least 95% of these bubbles at $280\mu m$ diameter or less.

- 82. The method of claim 64, wherein at least 50% by number of the gas bubbles of at least 25 μ m diameter are of no more than 120 μ m diameter and at least 95% of these gas bubbles are of no more than 250 μ m.
 - 83. Cancelled.
 - 84. Cancelled.
 - 85. Cancelled.
 - 86. Cancelled.